

## Dorsey, Nancy

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**From:** Dorsey, Nancy  
**Sent:** Thursday, September 08, 2016 4:38 PM  
**To:** 'Jim Marlatt'  
**Subject:** RE: Editorial - Dallas Morning News - Induced seismicity

Thanks!

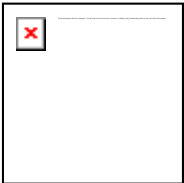
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**From:** Jim Marlatt [mailto:[J.Marlatt@occemail.com](mailto:J.Marlatt@occemail.com)]  
**Sent:** Thursday, September 08, 2016 4:33 PM  
**To:** Dorsey, Nancy <[Dorsey.Nancy@epa.gov](mailto:Dorsey.Nancy@epa.gov)>  
**Subject:** RE: Editorial - Dallas Morning News - Induced seismicity

Thank you, and have a great day.

### **Jim Marlatt**

Oil and Gas Specialist - Seismicity  
Oklahoma Corporation Commission  
2101 N. Lincoln Boulevard, Room 214  
Oklahoma City, OK 73105  
405.522.2758  
[j.marlatt@occemail.com](mailto:j.marlatt@occemail.com)



---

**From:** Dorsey, Nancy [<mailto:Dorsey.Nancy@epa.gov>]  
**Sent:** Thursday, September 08, 2016 3:38 PM  
**To:** Tim Baker; Matt Skinner; Charles Lord; Jim Marlatt  
**Subject:** FW: Editorial - Dallas Morning News - Induced seismicity

---

**From:** Dellinger, Philip  
**Sent:** Thursday, September 08, 2016 8:18 AM  
**To:** R6 6WQ-SG <[R6\\_6WQSG@epa.gov](mailto:R6_6WQSG@epa.gov)>; Honker, William <[honker.william@epa.gov](mailto:honker.william@epa.gov)>; Brown, Jamesr <[brown.jamesr@epa.gov](mailto:brown.jamesr@epa.gov)>; Garcia, David <[Garcia.David@epa.gov](mailto:Garcia.David@epa.gov)>  
**Subject:** FW: Editorial - Dallas Morning News - Induced seismicity

---

**From:** Lawrence, Rob  
**Sent:** Thursday, September 08, 2016 8:13 AM

**To:** Kenney, James <[Kenney.James@epa.gov](mailto:Kenney.James@epa.gov)>; Hanley, Mary <[Hanley.Mary@epa.gov](mailto:Hanley.Mary@epa.gov)>; Rupp, Mark <[Rupp.Mark@epa.gov](mailto:Rupp.Mark@epa.gov)>; Green, Holly <[Green.Holly@epa.gov](mailto:Green.Holly@epa.gov)>; Bates, William <[bates.william@epa.gov](mailto:bates.william@epa.gov)>  
**Cc:** Overbay, Michael <[overbay.michael@epa.gov](mailto:overbay.michael@epa.gov)>; Dellinger, Philip <[dellinger.philip@epa.gov](mailto:dellinger.philip@epa.gov)>; Gray, David <[gray.david@epa.gov](mailto:gray.david@epa.gov)>  
**Subject:** Editorial - Dallas Morning News - Induced seismicity

[Lead editorial in today's Dallas Morning News](#)

# Oklahoma shakes, Texas waits

By Dallas Morning News Editorial

[newsfeedback+editorial@dallasnews.com](mailto:newsfeedback+editorial@dallasnews.com)

Staff Writer

Published: 07 September 2016 04:13 PM

Updated: 07 September 2016 06:05 PM

If a 5.8-magnitude earthquake were to rock Texas, we hope our state regulators will be as responsive as Oklahoma and federal regulators have been.

Over the weekend, as a precaution, Oklahoma officials shut down 37 of the state's 3,200 active wastewater disposal wells — those within a 725-square-mile area of the epicenter, near Pawnee. On Tuesday, the Environmental Protection Agency said disposal wells within 211 square miles of Osage County, outside the state's jurisdiction, also would temporarily close.

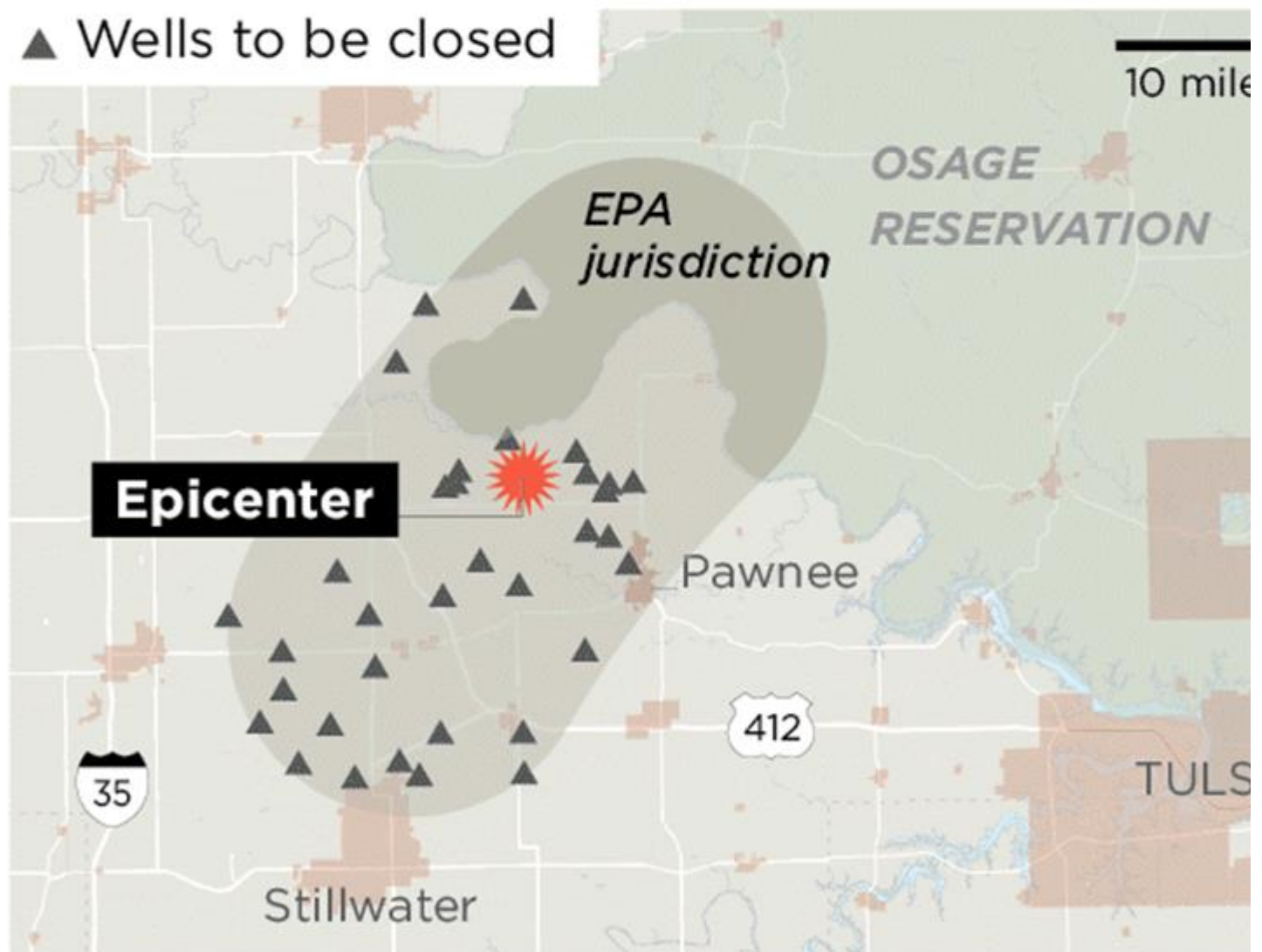
This represents a noticeable shift. Two years ago, Oklahoma regulators and Gov. Mary Fallin were earthquake deniers; now neither disputes myriad scientific evidence linking wastewater disposal wells to seismic tremors.

# Oklahoma's action plan

State officials moved quickly to close wastewater injection disposal wells that may have caused a 5.8-magnitude seismic tremor that was felt across the Midwest and through much of Texas.



▲ Wells to be closed



We wish we could say the same of our Texas Railroad Commission, which regulates the state's oil and gas industry. Our regulators say there isn't enough evidence to definitively say that injection disposal activity causes tremors and that more study is needed before they can make sweeping policy changes.

However, geologists have known for decades that disposal wells can cause tremors. And to no one's surprise, the frequency and magnitude of tremors have picked up dramatically as more injection wells have been put into operation.

The odds of property-damaging seismic tremors occurring in North Texas now ranks with some parts of California and Oklahoma. And researchers estimate that about 87 percent of these quakes in Texas are likely man-made. Wastewater pumped into wells doubled between 2007 and 2014. During that same period, the state's average number of earthquakes rose from two per year to 12.

Just last month, the EPA took the unusual step of criticizing the Railroad Commission for failing to acknowledge the seismic threats from high-pressure wastewater disposal wells. In the past two years, SMU and the University of Texas have pointed out this probable connection in pioneering research, as have countless other researchers.

Right now, there is a lull in earthquakes in North Texas due to low energy prices and reduced drilling activity. The Railroad Commission has urged companies to reduce the pressure and volume used in the wells, even turned down a few wells and approved others with certain conditions.

However, other states have taken entirely different approaches in disposing of wastewater. Drillers in Pennsylvania, for example, recycle or haul away wastewater to injection disposal well sites in neighboring Ohio, whose geology is more conducive to injection disposal wells. Is industry looking hard enough at available alternatives?

This much we know: When injection wells are shut down or operate under less pressure, the earthquake problem seems to lessen. Other states accept that as a reason to get ahead of the problem. Why not Texas, too?

Rob Lawrence  
Region 6  
Policy Advisor - Energy Issues  
214.665.6580

## Dorsey, Nancy

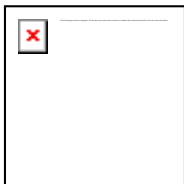
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**From:** Jim Marlatt <J.Marlatt@occeemail.com>  
**Sent:** Thursday, September 08, 2016 4:33 PM  
**To:** Dorsey, Nancy  
**Subject:** RE: Editorial - Dallas Morning News - Induced seismicity  
**Attachments:** removed.txt; Final\_Pawnee\_09-08-2016\_JM.PDF; Final\_Pawnee\_09-08-2016\_JM\_Well.jpg; Final\_Pawnee\_09-08-2016\_JM\_Well.pdf; Final\_Pawnee\_09-08-2016\_JM.JPG

Thank you, and have a great day.

### *Jim Marlatt*

Oil and Gas Specialist - Seismicity  
Oklahoma Corporation Commission  
2101 N. Lincoln Boulevard, Room 214  
Oklahoma City, OK 73105  
405.522.2758  
j.marlatt@occeemail.com



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**Subject:** FW: Editorial - Dallas Morning News - Induced seismicity

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**Cc:** Overbay, Michael <[overbay.michael@epa.gov](mailto:overbay.michael@epa.gov)>; Dellinger, Philip <[dellinger.philip@epa.gov](mailto:dellinger.philip@epa.gov)>; Gray, David

[<gray.david@epa.gov>](mailto:gray.david@epa.gov)

**Subject:** Editorial - Dallas Morning News - Induced seismicity

Lead editorial in today's Dallas Morning News

# Oklahoma shakes, Texas waits

By Dallas Morning News Editorial

newsfeedback+editorial@dallasnews.com

Staff Writer

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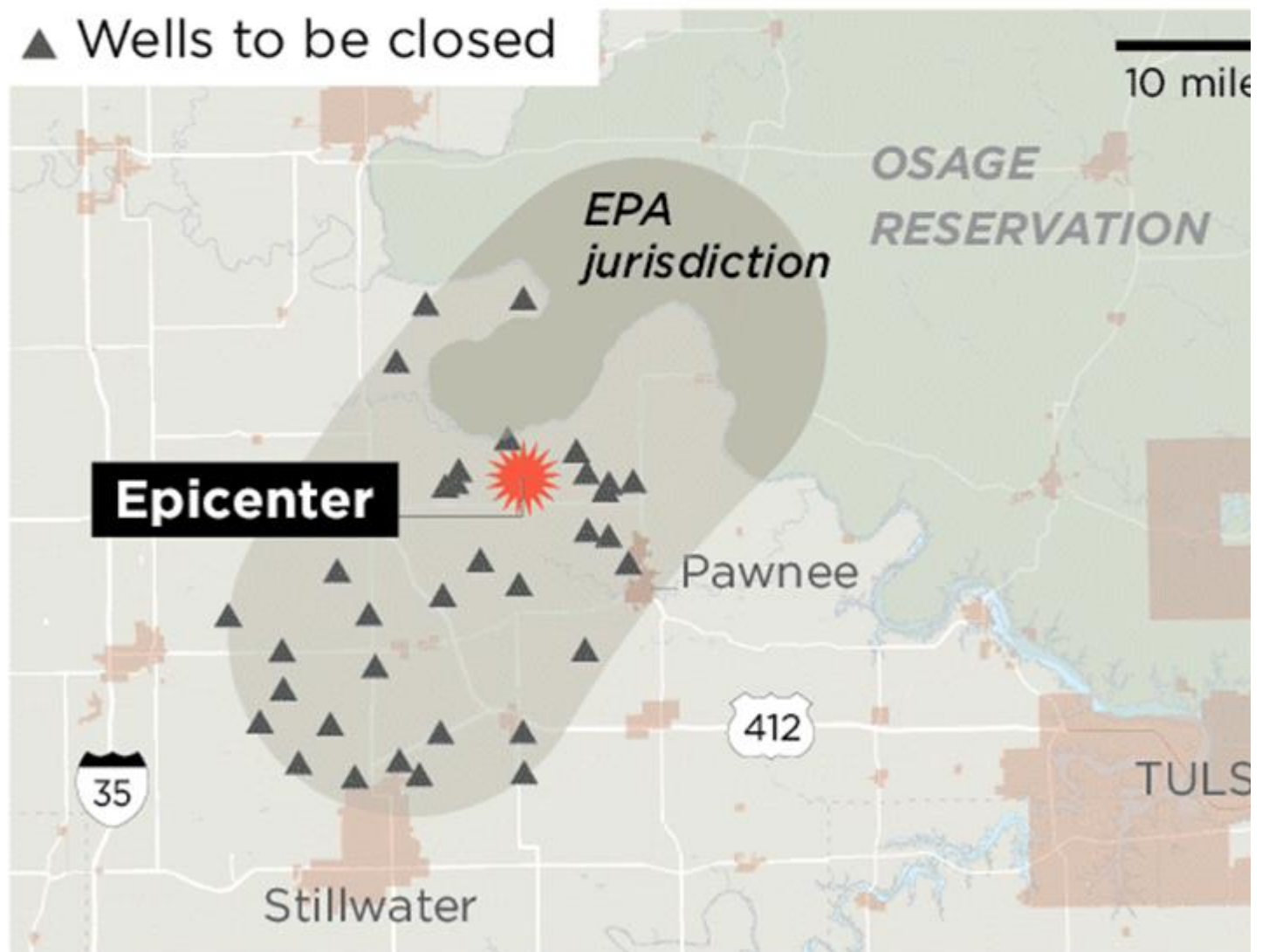


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Rob Lawrence  
Region 6  
Policy Advisor - Energy Issues  
214.665.6580



## Dorsey, Nancy

---

**From:** Dorsey, Nancy  
**Sent:** Thursday, September 08, 2016 3:03 PM  
**To:** Charles Lord; Jim Marlatt  
**Subject:** single EPA single OCC Pawnee Action well files  
**Attachments:** PAWNEE\_All\_OCC\_action\_wells.cpg; PAWNEE\_All\_OCC\_action\_wells.dbf; PAWNEE\_All\_OCC\_action\_wells.shp; PAWNEE\_All\_OCC\_action\_wells.shx; PAWNEE\_All\_OCC\_action\_wells.sbn; PAWNEE\_All\_OCC\_action\_wells.sbx; PAWNEE\_All\_OCC\_action\_wells.prj; DI\_Arbuckle\_09082016\_20wells.cpg; DI\_Arbuckle\_09082016\_20wells.dbf; DI\_Arbuckle\_09082016\_20wells.prj; DI\_Arbuckle\_09082016\_20wells.sbn; DI\_Arbuckle\_09082016\_20wells.sbx; DI\_Arbuckle\_09082016\_20wells.shp; DI\_Arbuckle\_09082016\_20wells.shx

**Importance:** High

Nancy S. Dorsey  
Environmental Scientist  
Oklahoma Class II Program Manager  
WQ-SG EPA Region 6  
1445 Ross Ave. #1200  
Dallas, TX 75202-2733  
214-665-2294  
FAX 214-665-2191

UIC Webpages:

<http://www.epa.gov/uic/underground-injection-control-epa-region-6-ar-la-nm-ok-and-tx>

<http://www.epa.gov/uic/guidance-documents-completing-class-i-injection-well-no-migration-petitions>

*Managing and Minimizing Potential of Injection-Induced Seismicity from Class II Disposal: Practical*

*Approaches:* <http://www.epa.gov/uic/underground-injection-control-national-technical-workgroup-final-issue-papers>

## Dorsey, Nancy

---

**From:** Dorsey, Nancy  
**Sent:** Thursday, September 08, 2016 2:38 PM  
**To:** Brown, Jamesr  
**Cc:** Dellinger, Philip; Honker, William; Tingey, Christopher; Hurlbut, Bill; Sanborn, Kent; Gillespie, David; Moore, Jessica; Aguinaga, David; Lane, Willie; Charles Lord; Jim Marlatt  
**Subject:** RE: extra well or not please  
**Attachments:** DI\_Arbuckle\_09072016\_20wells.xlsx

It is being added to the map. New spreadsheet...unless I messed something else up. I fixed ArcMaps removing all the well numbers.

---

**From:** Brown, Jamesr  
**Sent:** Thursday, September 08, 2016 2:25 PM  
**To:** Dorsey, Nancy <Dorsey.Nancy@epa.gov>  
**Cc:** Dellinger, Philip <dellinger.philip@epa.gov>; Honker, William <honker.william@epa.gov>  
**Subject:** Re: extra well or not please

Yes, Let's keep it in since it was in the original 17.  
Jim

Sent from my iPhone

On Sep 8, 2016, at 2:22 PM, Dorsey, Nancy <[Dorsey.Nancy@epa.gov](mailto:Dorsey.Nancy@epa.gov)> wrote:

OCC is trying to finalize the joint map. Do we or do we not include the extra point please?

Nancy S. Dorsey  
Environmental Scientist  
Oklahoma Class II Program Manager  
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## Dorsey, Nancy

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**Sent:** Thursday, September 08, 2016 2:25 PM  
**To:** Charles Lord; Jim Marlatt  
**Subject:** FW: extra well or not please

Please add in the problem well!

---

**From:** Brown, Jamesr  
**Sent:** Thursday, September 08, 2016 2:25 PM  
**To:** Dorsey, Nancy <Dorsey.Nancy@epa.gov>  
**Cc:** Dellinger, Philip <dellinger.philip@epa.gov>; Honker, William <honker.william@epa.gov>  
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## Dorsey, Nancy

---

**From:** Dorsey, Nancy  
**Sent:** Thursday, September 08, 2016 2:17 PM  
**To:** Charles Lord; Jim Marlatt  
**Subject:** solo well shapefile  
**Attachments:** Osage\_solo.xlsx; DI\_solo\_well.cpg; DI\_solo\_well.dbf; DI\_solo\_well.prj; DI\_solo\_well.sbn; DI\_solo\_well.sbx; DI\_solo\_well.shp; DI\_solo\_well.shx; Osage\_solo.csv

solo well shapefile

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Environmental Scientist  
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<http://www.epa.gov/uic/underground-injection-control-epa-region-6-ar-la-nm-ok-and-tx>

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*Approaches:* <http://www.epa.gov/uic/underground-injection-control-national-technical-workgroup-final-issue-papers>

## Dorsey, Nancy

---

**From:** Dorsey, Nancy  
**Sent:** Thursday, September 08, 2016 2:10 PM  
**To:** Charles Lord; Jim Marlatt  
**Subject:** still not right here it is  
**Attachments:** DI\_Arbuckle\_09072016\_reduced\_wells.shx; DI\_Arbuckle\_09072016\_reduced\_wells.prj; DI\_Arbuckle\_09072016\_reduced\_wells.shp.xml; DI\_Arbuckle\_09072016\_reduced\_wells.cpg; DI\_Arbuckle\_09072016\_reduced\_wells.dbf; DI\_Arbuckle\_09072016\_reduced\_wells.sbn; DI\_Arbuckle\_09072016\_reduced\_wells.sbx; DI\_Arbuckle\_09072016\_reduced\_wells.shp

I have not included the problem well.

Nancy S. Dorsey  
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## Dorsey, Nancy

---

**From:** Dorsey, Nancy  
**Sent:** Thursday, September 08, 2016 2:00 PM  
**To:** Charles Lord; Jim Marlatt  
**Subject:** problem well  
**Attachments:** Osage\_solo.xlsx

Well that was SI but is just outside area

Nancy S. Dorsey  
Environmental Scientist  
Oklahoma Class II Program Manager  
WQ-SG EPA Region 6  
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## **Dorsey, Nancy**

---

**From:** Phillip Bailey <P.Bailey@occeemail.com>  
**Sent:** Thursday, September 08, 2016 1:59 PM  
**To:** Charles Lord; Jim Marlatt; Julie Shemeta; Martin Emery; Dorsey, Nancy; Ron Clymer; Vicente Vasquez  
**Subject:** Pawnee Update\_Delineating well list

### **All:**

There will be about 14-17 wells we need to dig into further to make sure they have all the documentation necessary to prove they drilled into the Arbuckle (or deeper) and have ultimately isolated the injection zones (out of ABCK, etc.). Notice in NW of 20N 6E, we have IHS data (red dots) showing the well drilled in to crystalline basement. 1002A confirms that. Overall, there are roughly 50 wells identified as Arbuckle (all statuses) and another 14-17 identified as drilling into Ordovician or early age units and being in close proximity (<700') to a mapped injection well (all UIC, all formations, active and non-active) shown as black dots. All of the other wells in the 15 mile area are Silurian-Devonian or younger injections (or unknown).

There are 39 townships in the 15 mile buffered area with 29 of them having UIC mapped wells. ~1007 sq mi.

Star marks approximate epicenter of Pawnee EQ. Split into North/South.

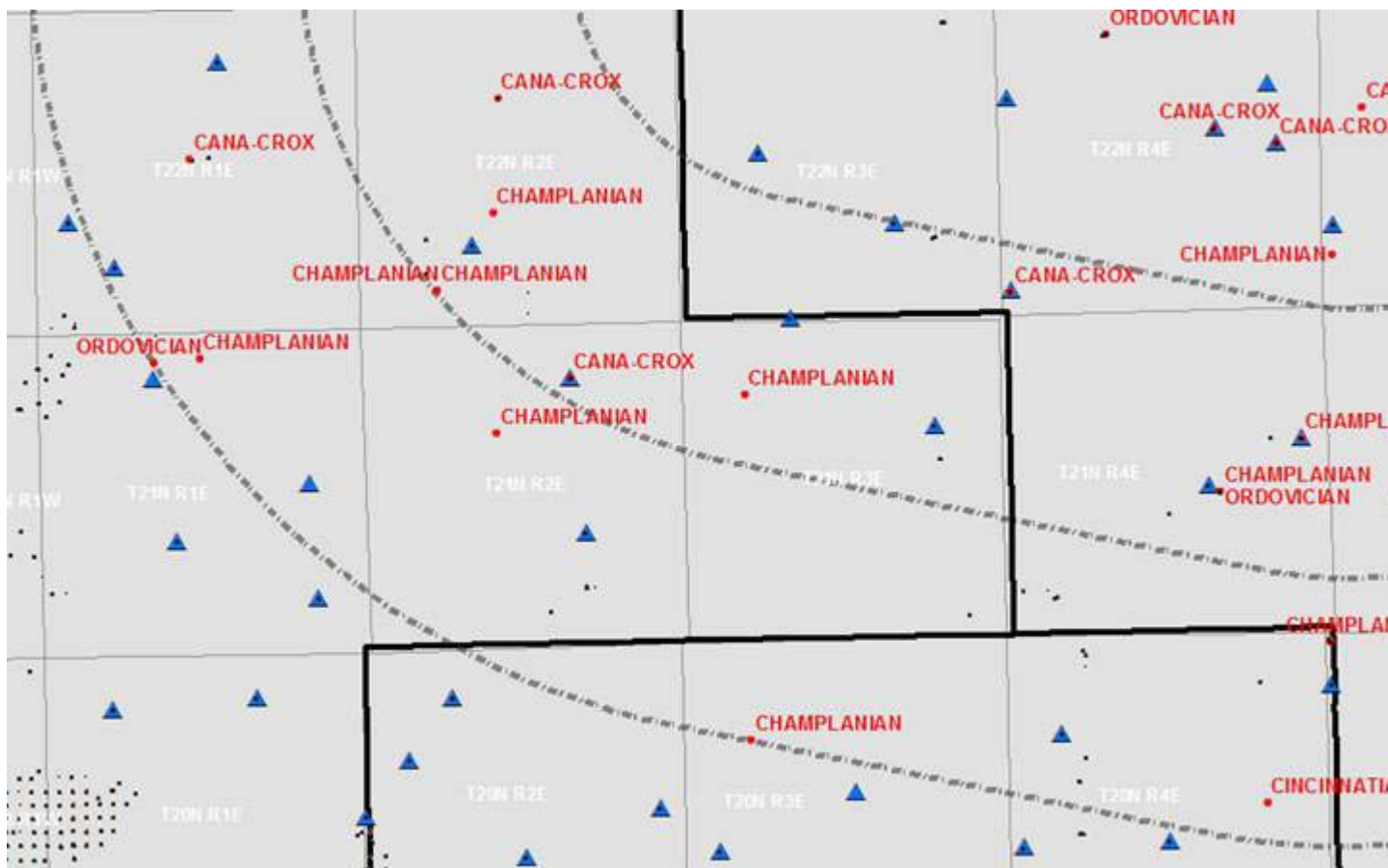
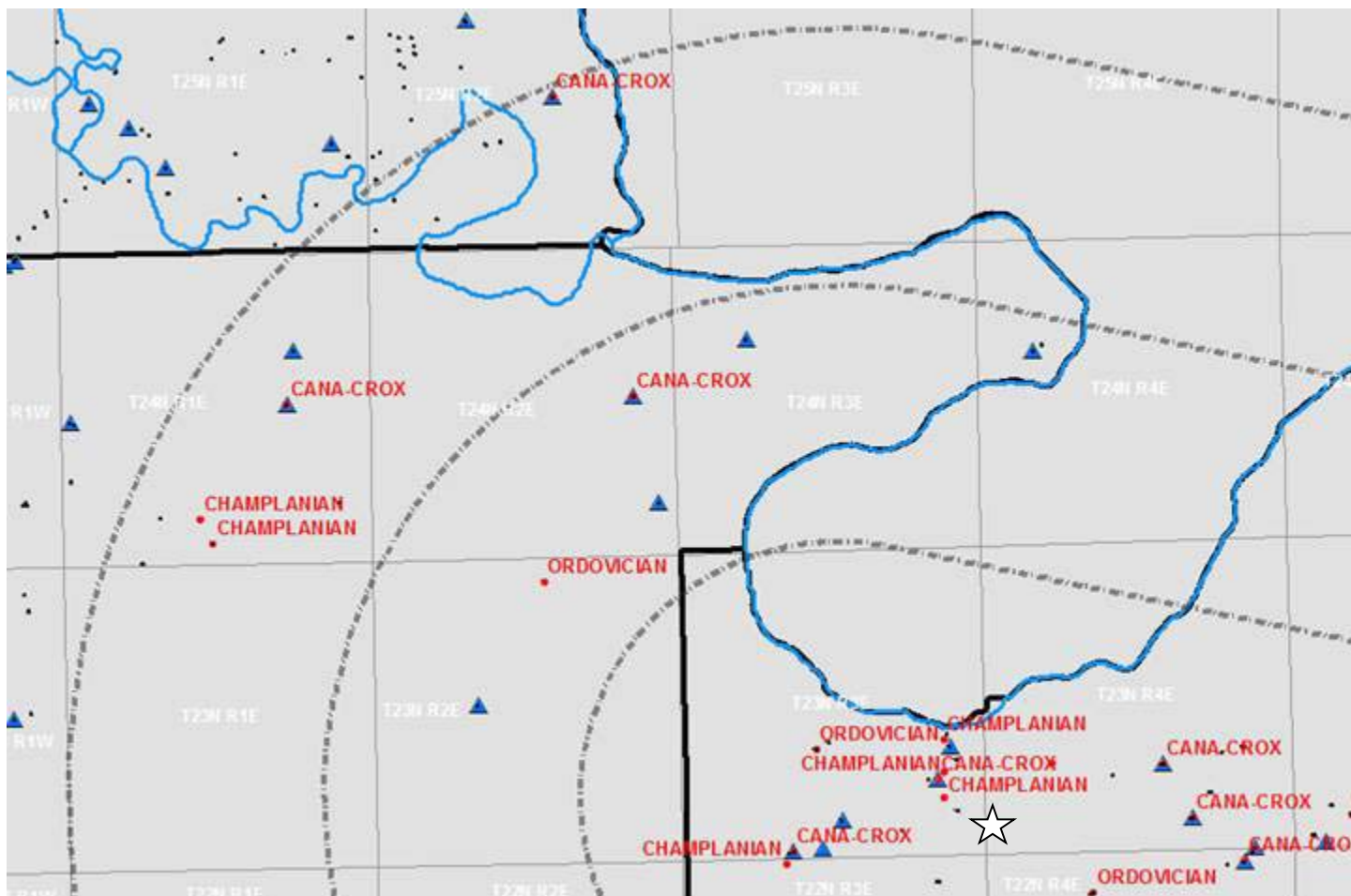
*Cana-Crox (Arbuckle Group and Timbered Hills Group)*

*Champlanian (Viola-Simpson, Wilcox)*

*Cincinnatian (Sylvan, Fernvale)*

*PCambrian (Pre Cambrian)*

*Ordovician (Undifferentiated)*



Regards,

***Phillip Bailey***

Contract Geologist-Oil & Gas

Oklahoma Corporation Commission

2101 N. Lincoln Boulevard, Room 214

Oklahoma City, OK 73105

(405) 522-6363

[p.bailey@occm.com](mailto:p.bailey@occm.com)

## Dorsey, Nancy

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**From:** Dorsey, Nancy  
**Sent:** Thursday, September 08, 2016 1:57 PM  
**To:** Charles Lord; Jim Marlatt  
**Subject:** FW: revised M5.8 areas

---

**From:** Dorsey, Nancy  
**Sent:** Thursday, September 08, 2016 1:50 PM  
**To:** Honker, William <[honker.william@epa.gov](mailto:honker.william@epa.gov)>; Payne, James <[payne.james@epa.gov](mailto:payne.james@epa.gov)>; Alvarado, Tina <[Alvarado.Tina@epa.gov](mailto:Alvarado.Tina@epa.gov)>  
**Cc:** Brown, Jamesr <[brown.jamesr@epa.gov](mailto:brown.jamesr@epa.gov)>; Tingey, Christopher <[tingey.christopher@epa.gov](mailto:tingey.christopher@epa.gov)>; Hurlbut, Bill <[hurlbut.william@epa.gov](mailto:hurlbut.william@epa.gov)>; Dellinger, Philip <[dellinger.philip@epa.gov](mailto:dellinger.philip@epa.gov)>; Lane, Willie <[Lane.Willie@epa.gov](mailto:Lane.Willie@epa.gov)>  
**Subject:** RE: revised M5.8 areas

Okay, this is more than a bit ridiculous. I vote we leave off the extraneous well that wasn't ever supposed to be included. Okay??????

---

**From:** Honker, William  
**Sent:** Thursday, September 08, 2016 12:40 PM  
**To:** Dorsey, Nancy <[Dorsey.Nancy@epa.gov](mailto:Dorsey.Nancy@epa.gov)>; Payne, James <[payne.james@epa.gov](mailto:payne.james@epa.gov)>; Alvarado, Tina <[Alvarado.Tina@epa.gov](mailto:Alvarado.Tina@epa.gov)>  
**Cc:** Brown, Jamesr <[brown.jamesr@epa.gov](mailto:brown.jamesr@epa.gov)>; Tingey, Christopher <[tingey.christopher@epa.gov](mailto:tingey.christopher@epa.gov)>; Hurlbut, Bill <[Hurlbut.William@epa.gov](mailto:Hurlbut.William@epa.gov)>; Dellinger, Philip <[dellinger.philip@epa.gov](mailto:dellinger.philip@epa.gov)>; Lane, Willie <[Lane.Willie@epa.gov](mailto:Lane.Willie@epa.gov)>  
**Subject:** RE: revised M5.8 areas

Thanks.

Jim/Tina – no Pawnee wells in current or revised area.

Bill

William K. Honker, P.E.  
Director, Water Division (6WQ)  
EPA Region 6  
Dallas, TX  
214-665-3187  
<http://www.epa.gov/region6/water/index.htm>



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**Cc:** Brown, Jamesr <[brown.jamesr@epa.gov](mailto:brown.jamesr@epa.gov)>; Tingey, Christopher <[tingey.christopher@epa.gov](mailto:tingey.christopher@epa.gov)>; Hurlbut, Bill <[Hurlbut.William@epa.gov](mailto:Hurlbut.William@epa.gov)>  
**Subject:** RE: revised M5.8 areas

I did check them, but so far as I know they don't actually have any Arbuckle disposal at least none even close to this area.

---

**From:** Honker, William  
**Sent:** Thursday, September 08, 2016 12:13 PM  
**To:** Dellinger, Philip <[dellinger.philip@epa.gov](mailto:dellinger.philip@epa.gov)>; Dorsey, Nancy <[Dorsey.Nancy@epa.gov](mailto:Dorsey.Nancy@epa.gov)>  
**Cc:** Brown, Jamesr <[brown.jamesr@epa.gov](mailto:brown.jamesr@epa.gov)>  
**Subject:** RE: revised M5.8 areas

Tina A. raised the question of whether the revised area might bring in some Pawnee injection wells that we have jurisdiction for. Are there any of these?

Bill

William K. Honker, P.E.  
Director, Water Division (6WQ)  
EPA Region 6  
Dallas, TX  
214-665-3187  
<http://www.epa.gov/region6/water/index.htm>



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**From:** Dellinger, Philip  
**Sent:** Thursday, September 08, 2016 12:08 PM  
**To:** Honker, William <[honker.william@epa.gov](mailto:honker.william@epa.gov)>; Brown, Jamesr <[brown.jamesr@epa.gov](mailto:brown.jamesr@epa.gov)>  
**Subject:** FW: revised M5.8 areas  
**Importance:** High

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**From:** Dorsey, Nancy  
**Sent:** Wednesday, September 07, 2016 6:48 PM  
**To:** Dellinger, Philip <[dellinger.philip@epa.gov](mailto:dellinger.philip@epa.gov)>; Hurlbut, Bill <[Hurlbut.William@epa.gov](mailto:Hurlbut.William@epa.gov)>; Gillespie, David <[Gillespie.David@epa.gov](mailto:Gillespie.David@epa.gov)>; Moore, Jessica <[Moore.Jessica@epa.gov](mailto:Moore.Jessica@epa.gov)>; Aguinaga, David <[Aguinaga.David@epa.gov](mailto:Aguinaga.David@epa.gov)>; Tingey, Christopher <[tingey.christopher@epa.gov](mailto:tingey.christopher@epa.gov)>; Ray, Lauren <[Ray.Lauren@epa.gov](mailto:Ray.Lauren@epa.gov)>  
**Subject:** revised M5.8 areas  
**Importance:** High

The changed area has NOT YET BEEN APPROVED. But I anticipate it will be.

The attached spreadsheet and maps correlate to reduced volume area with cap (40% from the 2014 lease total, with a per well cap that will have to be defined), and the new 10 mile area as the shut-in zone. OCC is currently deciding on whether or not it is safe to allow plugback to the Wilcox.

The yellow highlighted well is just outside the original 10 mile area, but was shut-in.

The new cap area is a combination of a 15 mile buffer off the revised fault traces and the original 10 mile where it exceeds the current 15 mile area. (Merged the two.)

PLEASE FORWARD TO KENT!

Nancy S. Dorsey  
Environmental Scientist  
Oklahoma Class II Program Manager  
WQ-SG EPA Region 6  
1445 Ross Ave. #1200  
Dallas, TX 75202-2733  
214-665-2294  
FAX 214-665-2191

UIC Webpages:

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*Approaches:* <http://www.epa.gov/uic/underground-injection-control-national-technical-workgroup-final-issue-papers>



## Dorsey, Nancy

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**From:** Dorsey, Nancy  
**Sent:** Thursday, September 08, 2016 1:47 PM  
**To:** 'Charles Lord'  
**Subject:** RE:

Thanks. FYI the version of our reduction wells you just sent is missing the two eastern most wells.

---

**From:** Charles Lord [mailto:C.Lord@occemail.com]  
**Sent:** Thursday, September 08, 2016 1:36 PM  
**To:** Dorsey, Nancy <Dorsey.Nancy@epa.gov>  
**Subject:** RE:

Thought you had them.

Here they come!!!!

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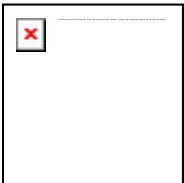
**From:** Dorsey, Nancy [mailto:Dorsey.Nancy@epa.gov]  
**Sent:** Thursday, September 08, 2016 1:33 PM  
**To:** Charles Lord  
**Subject:** RE:

This doesn't include the OCC wells!

---

**From:** Charles Lord [mailto:C.Lord@occemail.com]  
**Sent:** Thursday, September 08, 2016 1:24 PM  
**To:** Dorsey, Nancy <Dorsey.Nancy@epa.gov>  
**Subject:**

Charles Lord  
Senior Hydrologist  
Oklahoma Corporation Commission  
Post Office Box 52000  
Oklahoma City, Oklahoma 73152  
(405)522-2751  
[c.lord@occemail.com](mailto:c.lord@occemail.com)



## Dorsey, Nancy

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**From:** Dorsey, Nancy  
**Sent:** Thursday, September 08, 2016 1:34 PM  
**To:** 'Jim Marlatt'  
**Subject:** RE: Map - Please review

Thank you!

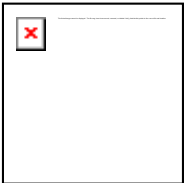
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**From:** Jim Marlatt [mailto:[J.Marlatt@occemail.com](mailto:J.Marlatt@occemail.com)]  
**Sent:** Thursday, September 08, 2016 1:28 PM  
**To:** Dorsey, Nancy <[Dorsey.Nancy@epa.gov](mailto:Dorsey.Nancy@epa.gov)>  
**Subject:** Map - Please review

Thank you, and have a great day.

### ***Jim Marlatt***

Oil and Gas Specialist - Seismicity  
Oklahoma Corporation Commission  
2101 N. Lincoln Boulevard, Room 214  
Oklahoma City, OK 73105  
405.522.2758  
[j.marlatt@occemail.com](mailto:j.marlatt@occemail.com)



## Dorsey, Nancy

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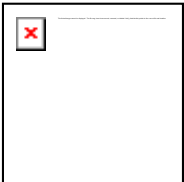
**From:** Dorsey, Nancy  
**Sent:** Thursday, September 08, 2016 1:33 PM  
**To:** 'Charles Lord'  
**Subject:** RE:

This doesn't include the OCC wells!

---

**From:** Charles Lord [mailto:C.Lord@occemail.com]  
**Sent:** Thursday, September 08, 2016 1:24 PM  
**To:** Dorsey, Nancy <Dorsey.Nancy@epa.gov>  
**Subject:**

Charles Lord  
Senior Hydrologist  
Oklahoma Corporation Commission  
Post Office Box 52000  
Oklahoma City, Oklahoma 73152  
(405)522-2751  
[c.lord@occemail.com](mailto:c.lord@occemail.com)



## Dorsey, Nancy

---

**From:** Dorsey, Nancy  
**Sent:** Thursday, September 08, 2016 12:36 PM  
**To:** Charles Lord  
**Subject:** FW: second try  
**Attachments:** DI\_Arbuckle\_09072016\_19wells.dbf; DI\_Arbuckle\_09072016\_19wells.cpg; DI\_Arbuckle\_09072016\_19wells.shx; DI\_Arbuckle\_09072016\_19wells.shp.xml; DI\_Arbuckle\_09072016\_19wells.shp; DI\_Arbuckle\_09072016\_19wells.sbx; DI\_Arbuckle\_09072016\_19wells.sbn; DI\_Arbuckle\_09072016\_19wells.prj

**Importance:** High

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**From:** Dorsey, Nancy  
**Sent:** Thursday, September 08, 2016 11:49 AM  
**To:** Jim Marlatt <J.Marlatt@occemail.com>  
**Subject:** second try  
**Importance:** High

Nancy S. Dorsey  
Environmental Scientist  
Oklahoma Class II Program Manager  
WQ-SG EPA Region 6  
1445 Ross Ave. #1200  
Dallas, TX 75202-2733  
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<http://www.epa.gov/uic/guidance-documents-completing-class-i-injection-well-no-migration-petitions>

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*Approaches:* <http://www.epa.gov/uic/underground-injection-control-national-technical-workgroup-final-issue-papers>

## Dorsey, Nancy

---

**From:** Dorsey, Nancy  
**Sent:** Thursday, September 08, 2016 11:49 AM  
**To:** Jim Marlatt  
**Subject:** second try  
**Attachments:** DI\_Arbuckle\_09072016\_19wells.dbf; DI\_Arbuckle\_09072016\_19wells.cpg; DI\_Arbuckle\_09072016\_19wells.shx; DI\_Arbuckle\_09072016\_19wells.shp.xml; DI\_Arbuckle\_09072016\_19wells.shp; DI\_Arbuckle\_09072016\_19wells.sbx; DI\_Arbuckle\_09072016\_19wells.sbn; DI\_Arbuckle\_09072016\_19wells.prj

**Importance:** High

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## Dorsey, Nancy

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**From:** Dorsey, Nancy  
**Sent:** Thursday, September 08, 2016 11:30 AM  
**To:** Jim Marlatt  
**Subject:** shapefiles  
**Attachments:** DI\_Arbuckle\_09032016\_10m\_17wells\_UTM14.cpg; DI\_Arbuckle\_09032016\_10m\_17wells\_UTM14.dbf; DI\_Arbuckle\_09032016\_10m\_17wells\_UTM14.prj; DI\_Arbuckle\_09032016\_10m\_17wells\_UTM14.sbn; DI\_Arbuckle\_09032016\_10m\_17wells\_UTM14.sbx; DI\_Arbuckle\_09032016\_10m\_17wells\_UTM14.shp; DI\_Arbuckle\_09032016\_10m\_17wells\_UTM14.shx  
  
**Importance:** High

Nancy S. Dorsey  
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<http://www.epa.gov/uic/guidance-documents-completing-class-i-injection-well-no-migration-petitions>

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*Approaches:* <http://www.epa.gov/uic/underground-injection-control-national-technical-workgroup-final-issue-papers>



## **Dorsey, Nancy**

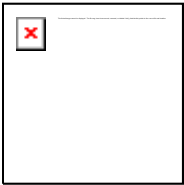
---

**From:** Jim Marlatt <J.Marlatt@occeemail.com>  
**Sent:** Thursday, September 08, 2016 8:52 AM  
**To:** Dorsey, Nancy  
**Subject:** wells - original  
**Attachments:** removed.txt; PawneeActionWells09-03-2016.lpk

Thank you, and have a great day.

### ***Jim Marlatt***

Oil and Gas Specialist - Seismicity  
Oklahoma Corporation Commission  
2101 N. Lincoln Boulevard, Room 214  
Oklahoma City, OK 73105  
405.522.2758  
j.marlatt@occeemail.com



## **Dorsey, Nancy**

---

**From:** Matt Skinner <M.Skinner@occeemail.com>  
**Sent:** Thursday, September 08, 2016 8:06 AM  
**To:** Gray, David  
**Subject:** RE: Connecting

We released the map showing operator and well locations for our area of jurisdiction within hours last Saturday.

As far as EPA wells, I had an ORA for all emails between OCC and EPA re: the quake - one of those emails had a map from EPA showing the locations of most of the wells in Osage county that fell into the action area in the OCC plan. The map was sent to us Saturday - before the EPA decided on a course of action. I stressed to reporters the map was preliminary at the time it was sent.

-----Original Message-----

From: Gray, David [mailto:gray.david@epa.gov]  
Sent: Thursday, September 08, 2016 7:57 AM  
To: Matt Skinner  
Subject: Re: Connecting

Great. I am in Louisiana today with Secretary Brown. My cell is 214.789.2619. Understand from reporter that OCC released well locations last night - true?

Sent from my iPhone

> On Sep 8, 2016, at 7:54 AM, Matt Skinner <M.Skinner@occeemail.com> wrote:

>

> David,

> Thanks. My contact info is O) 405-521-4180, C) 405-833-2242 (the

> latter is the best way to reach me lately I'm in the field or in the

> oil and gas division on a different floor.) Matt

>

> -----Original Message-----

> From: Gray, David [mailto:gray.david@epa.gov]

> Sent: Thursday, September 08, 2016 5:54 AM

> To: Matt Skinner

> Cc: Tyler.Powell@ee.ok.gov; Gray, David

> Subject: Connecting

>

> Matt,

>

> David Gray here. I am comm director for EPA in Dallas. Reaching out to connect on Osage and will keep you updated. I know our teams are talking and figured comm should connect also. Let me know if you need anything.

>

> David

>

> Sent from my iPhone